

Title (en)

Ether derivatives of polymeric glucans, their preparation as well as their use

Title (de)

Polymere Glucanäther-Derivate, ihre Herstellung sowie ihre Verwendung

Title (fr)

Dérivés éthérifiés de polymères de glucane, procédé de préparation et leur utilisation

Publication

EP 0819703 A3 19991222 (DE)

Application

EP 97112307 A 19970717

Priority

DE 19629117 A 19960719

Abstract (en)

[origin: EP0819703A2] Polymeric glucan ether derivatives (A) containing monomer units of formulae (I) and (II) are new. (I) are bound to (II) via a 1,3- beta -glycosidic bond; X = CH₂-COO, CH₂-CH₂-COO, CH(CH₃)-COO and/or CH₂-CH₂-SO₃; M = H or an alkali and/or alkaline earth metal. Also claimed are topical preparations containing (A).

IPC 1-7

C08B 37/00; A61K 31/72

IPC 8 full level

A61K 8/06 (2006.01); **A61K 8/73** (2006.01); **A61K 31/716** (2006.01); **A61Q 19/00** (2006.01); **A61Q 19/08** (2006.01); **C08B 37/00** (2006.01)

CPC (source: EP US)

A61K 8/06 (2013.01 - EP US); **A61K 8/068** (2013.01 - EP US); **A61K 8/73** (2013.01 - EP US); **A61K 31/716** (2013.01 - EP US);
A61Q 19/00 (2013.01 - EP US); **A61Q 19/08** (2013.01 - EP US); **C08B 37/0009** (2013.01 - EP US); **C08B 37/0024** (2013.01 - EP US);
A61K 2800/21 (2013.01 - EP US)

Citation (search report)

- [X] DE 2152059 A1 19720420 - AJINOMOTO KK
- [X] EP 0397880 A1 19901122 - SEIKAGAKU KOGYO CO LTD [JP]
- [X] US 4454315 A 19840612 - SASAKI TAKUMA [JP], et al
- [Y] DE 4431251 A1 19960307 - AUDOR PHARMA GMBH [DE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 015, no. 474 (C - 0890) 3 December 1991 (1991-12-03)
- [X] S. DEMLEITNER ET AL.: "Synthesis and antitumour activity of sulfoalkyl derivatives of curdlan and lichenan", CARBOHYDRATE RESEARCH, vol. 226, 30 March 1992 (1992-03-30), pages 247-252, XP000258120
- [X] F. ZÜLLI ET AL.: "Photoprotective effects of CM-glucan on cultured human skin cells", EURO COSMETICS, vol. 1995, no. 11, 1995, pages 46-50, XP002090000
- [XY] F. ZÜLLI ET AL.: "CM-Glucan a new yeast polysaccharide for cosmetic use", COSMETICS AND TOILETRIES MANUFACTURE WORLDWIDE, 1994, pages 131,133,134,136, XP002090001

Cited by

US6342486B1; EP1421974A1; CN106255707A; EP4163305A1; WO0045802A3; US9714403B2; US10190079B2; US9771548B2;
US10221378B2; US11015150B2; WO2015095046A1; US9957334B2; US10323102B2; US10800860B2; US10005850B2; US10865254B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0819703 A2 19980121; EP 0819703 A3 19991222; EP 0819703 B1 20040922; DE 19730542 A1 19980212; DE 59711734 D1 20040729;
DE 59711933 D1 20041028; DK 0819703 T3 20041101; DK 1197216 T3 20040830; EP 1197216 A1 20020417; EP 1197216 B1 20040623;
US 6342486 B1 20020129

DOCDB simple family (application)

EP 97112307 A 19970717; DE 19730542 A 19970717; DE 59711734 T 19970717; DE 59711933 T 19970717; DK 01128699 T 19970717;
DK 97112307 T 19970717; EP 01128699 A 19970717; US 89692697 A 19970718